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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/070,333	06/11/2002	Fabrice Devige	15675P392	4549

7590

05/24/2005

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EXAMINER

CHANG, KENT WU

ART UNIT

PAPER NUMBER

2673

DATE MAILED: 05/24/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

Supplemental
Notice of Allowability

Application No.

10/070,333

Examiner

Kent Chang

Applicant(s)

DEVIGE ET AL.

Art Unit

2675

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--

All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. **THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS.** This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.

1. ☒ This communication is responsive to the Interview Summary dated 5/17/05.
2. ☒ The allowed claim(s) is/are 1-31.
3. ☒ The drawings filed on 11 June 2002 are accepted by the Examiner.
4. ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
 - a) ☒ All b) ☐ Some* c) ☐ None of the:
 1. ☒ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)).

* Certified copies not received: _____.

Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application.

THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.

5. ☐ A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.
 6. ☐ CORRECTED DRAWINGS (as "replacement sheets") must be submitted.
 - (a) ☐ including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached
 - 1) ☐ hereto or 2) ☐ to Paper No./Mail Date _____.
 - (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date _____.
- Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d).
7. ☐ DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.

Attachment(s)

- | | |
|---|---|
| 1. <input type="checkbox"/> Notice of References Cited (PTO-892) | 5. <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 2. <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 6. <input type="checkbox"/> Interview Summary (PTO-413),
Paper No./Mail Date _____ |
| 3. <input type="checkbox"/> Information Disclosure Statements (PTO-1449 or PTO/SB/08),
Paper No./Mail Date _____ | 7. <input checked="" type="checkbox"/> Examiner's Amendment/Comment ✓ |
| 4. <input type="checkbox"/> Examiner's Comment Regarding Requirement for Deposit
of Biological Material | 8. <input type="checkbox"/> Examiner's Statement of Reasons for Allowance |
| | 9. <input type="checkbox"/> Other _____ |

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Mr. Eric Hyman on 5/17/05.

The application has been amended as follows:

Amend claims 17, 22, and 30 as follows:

17. The device as claimed in claim 14, characterized in that a homothetic correspondence between a pixel (N_{qx} , N_{qy}) of the screen reference frame and a physical point (x_r , y_r) of the plate opposite the graphical pixel is established by automated calibration according to the following operations:

- displaying by the software of a target at various positions with known screen coordinates and measuring of the corresponding physical coordinates. For example, a first target is displayed at $N_0(i, j)$ where i and j are screen coordinates, ready of the origin of the graphical coordinates. This target is displayed on the acoustic plate at the real coordinates $N_0(x_a, y_e)$. An impact carried out opposite the target makes it possible to gather these real coordinates via the acquisition device. A second target is then displayed at $N_1(k, l)$ ready of the maximum coordinates of the graphical interface. The corresponding real coordinates $N_1(x_b, y_d)$ are obtained through an impact opposite the

Art Unit: 2675

target. The graphical coordinates (N_{qx}, N_{qy}) of a pixel with real coordinates (x_r, y_r) may then be deduced from the formula

$$\begin{cases} N_{qx} = i + (k - i) \frac{(x_r - x_a)}{(x_b - x_a)} \\ N_{qy} = j + (l - j) \frac{(y_r - y_a)}{(y_c - y_d)} \end{cases}$$

• a reference target is displayed a last time at the center of the graphical screen. The impact carried out opposite the target is converted into screen coordinates according to the above formula. The calculated position is compared with the reference position. If the discrepancy is below a certain threshold, the calibration operation is validated. Otherwise it is repeated.

22. The device as claimed in claim 1, characterized in that it is furnished with software means such that the portion of the plate which serves as a screen is regarded as a special zone making it possible to quit or to switch from any software application managing the execution of groups of programs associated with various zones of the plate which are situated off-screen. Conversely, the system is furnished with software means such that any impact produced on the plate outside the screen zone is associated with the execution of a chosen application managing the workspace situated off-screen, such as for example the application where, on the basis of the homothetic

Art Unit: 2675

~~correspondence established between the pixels of a digital photograph of the acoustic plate and the physical coordinates of these pixels on the acoustic plate, groups of programs are executed following an impact on a given zone of the plate.~~

30. The device as claimed in claim 14, characterized in that it is furnished with software means such that the portion of the plate which serves as a screen is regarded as a special zone making it possible to quit or to switch from any software application managing the execution of groups of programs associated with various zones of the plate which are situated off-screen. ~~Conversely, the system is furnished with software means such that any impact produced on the plate outside the screen zone is associated with the execution of a chosen application managing the workspace situated off screen, such as for example the application where, on the basis of the homothetic correspondence established between the pixels of a digital photograph of the acoustic plate and the physical coordinates of these pixels on the acoustic plate, groups of programs are executed following an impact on a given zone of the plate.~~

CONTACT INFORMATION

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Kent Chang whose telephone number is 571-272-7667.

Art Unit: 2675

The examiner can normally be reached on Monday to Thursday from 9:00 AM to 6:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sumati Lefkowitz, can be reached at 571-272-3638.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

or faxed to:

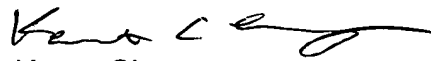
703-872-9306

Hand-delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Application/Control Number: 10/070,333
Art Unit: 2675

Page 6

A handwritten signature in black ink, appearing to read 'Kent Chang', with a stylized flourish at the end.

Kent Chang
Primary Examiner
Art Unit 2675

kc

5/17/05